INTERNATIONAL SEARCH REPORT ROC'D PCT/PTO 03/03229

Α.	CLA	ISSIFI	CATION O	F SUBJECT	MATTER
IF	,C	7	B01D4	6/24	B01D46/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $\ensuremath{\text{IPC}}\xspace 7 \ \ \xspace B01D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A .	US 4 735 635 A (ISRAELSON GORDON A ET AL) 5 April 1988 (1988-04-05) column 4, line 40 - line 63; figures 2,7	1–11
Α	US 4 960 448 A (ZIEVERS ELIZABETH C) 2 October 1990 (1990-10-02) column 3, line 54 - line 64; figure 1	1-11
A	GB 1 227 457 A (HAMRIN, ALF JOHAN) 7 April 1971 (1971-04-07) page 1, line 58 - line 83; figure 3	1-11
Α	GB 1 242 065 A (UK ATOMIC ENERGY AUTHORITY) 11 August 1971 (1971-08-11) page 1, line 73 - line 78; figures 1,2	1-11
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
4 June 2003	12/06/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Sembritzki, T

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Application No PC 03/03229

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ategory °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.		
	DE 40 08 742 A (KRUPP KOPPERS GMBH) 26 September 1991 (1991-09-26) column 2, line 60 - line 63; figure 1	1-11		
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